

CLAIMS

What is claimed is:

1. Motor vehicle door lock (3) provided for connection to a vehicle door, in which the motor vehicle door lock (3) comprises a carrier plate (4) whereon the locking pieces (2, 21, 22) are mounted, and a lock housing (32) which at least partially surrounds the locking pieces (2, 21, 22) comprising the carrier plate (4), characterized in that a counter piece (34) formed from the side (36) of the lock housing (32), which is opposite to the carrier plate (4) is provided in such a way that it co-operates with a connection element (7) in the vehicle door (8) by means of a through opening (43) in the carrier plate (4).
2. Motor vehicle door lock according to claim 1, characterized in that, the connection counter piece (34) is formed by a vertically extending cone-shaped dome (35).
3. Motor vehicle door lock according to claim 2, characterized in that, on the carrier plate (4) and on the side (42) facing the lock housing (32), a dome/cone seat (44) is formed around the through opening (43) for co-operation with the conical dome (35), said seat containing a funnel-shaped opening (45) for accommodating the cone-shaped dome (35).
4. Motor vehicle door lock according to claim 3, characterized in that, the dome/cone seat (44) is produced by plastic extrusion coating (54) and said plastic extrusion coating (54) being applied, in particular, using the Outsert method.

5. Motor vehicle door lock according to claims 1 to 4,
characterized in that,
inside the connection counter piece (34) a bearing (37) for the thread (72) of a bolt (71)
extending through the through opening (43) is provided.
6. Motor vehicle door lock according to one of the preceding claims,
characterized in that,
the carrier plate (4) is formed from a shape-retaining material, in particular metal.
7. Motor vehicle door lock according to one of the preceding claims,
characterized in that,
the carrier plate (4) is formed by a frame box (31) of a motor vehicle door lock (3).
8. Motor vehicle door lock according to one of the preceding claims,
Characterized in that,
the locking pieces (2) are a catch (21) and/or a pawl (22) of a motor vehicle door lock (3).
9. Motor vehicle door lock according to one of the preceding claims,
characterized in that,
the external edges (46) and/or edges of openings or cut-outs of the carrier plate (4) are at
least partially enclosed by a plastic extrusion coating (55) covering the edges (46), with
the plastic extrusion coating having, in particular, been applied using the Outsert method.
10. Motor vehicle door lock according to one of the preceding claims,
characterized in that,
a plastic extrusion coating (52) layer, in particular using the Outsert method, is applied at
least partially between the locking pieces (2, 21, 22) and the carrier plate (4) and/or the
frame box (31) and/or the lock housing .
11. Motor vehicle door lock according to one of the preceding claims,
characterized in that,

the plastic extrusion coating (5, 51, 52, 53, 54, 55) on the carrier plate (4) is produced in a single production step, using the Outsert method.

12. Motor vehicle door lock according to one of the preceding claims, characterized in that, a transportation fixing (9) vertically extending from the carrier plate (4) is provided for connecting the lock housing (32) to the carrier plate (4) and in which the transportation fixing (9) contains at least one snap-in projection (91) provided on an edge (38) or a form in the lock housing (32) for engaging into.

13. Motor vehicle door lock according to one of the preceding claims, characterized in that, the lock housing (32) and/or the conical dome (35) and/or the transportation fixing (9) are produced from plastic, in particular a technical plastic and/or fiberglass or carbon fiber-reinforced plastic.

14. Motor vehicle door lock according to one of the preceding claims, characterized in that, a noise-reducing layer (56) is provided between the vehicle door (8) and the motor vehicle door lock (3), with the noise-reducing layer being applied by plastic extrusion coating using, in particular, the Outsert method and in which the noise-reducing layer consists, in particular, of the plastic extrusion coating (56, 55) of the dome/cone seat (44) and/or the transportation fixing (9) and/or the plastic extrusion coating (55) of the edges.